



# भारत का राजपत्र

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No. 43] NEW DELHI, SATURDAY, OCTOBER 25, 1986 (KARTIKA 3, 1908)

इस भाग में भिन्न पृष्ठ संख्या की जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस  
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Calcutta, the 25th October 1986

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## CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated the 22nd December 1984 under the heading "PATENTS SEALED" delete 152747.

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

18th September, 1986

690/Cal/86. The Babcock & Wilcox Company. A method of calibrating a linearizing circuit. [Divisional dated 12th October, 1982].

19th September, 1986

691/Cal/86. Tejendra Garg. Improvements in or relating to an apparatus for simultaneous detection and removal of contaminants from fluids and process therefor.

692/Cal/86. Robert Henry Abplanalp. Dispensing cap for use with pressurized containers. [Divisional dated 5th April, 1983].

693/Cal/86. Fuchs Systemtechnik GmbH. Vessel of a metallurgical furnace, especially of an arc furnace.

694/Cal/86. Comvik AB. Mobile Telephone system.

22nd September, 1986

695/Cal/86. Debakiranjan Dutta and Bhupesh Chandra Dutta. Drive with intermittent motor.

696/Cal/86. Westinghouse Electric Corporation. Improvements in or relating to steam turbine high pressure vent and seal system.

697/Cal/86. (1) Rajesh V. Shah (2) Dr. R. H. G. Rau (3) Dr. N. D. Tambat. Development of carboxylic acid coatings for cold heating quality stainless steels.

698/Cal/86. (1) Rajesh V. Shah (2) Dr. R. H. G. Rau (3) Dr. N. D. Tambat. Development of coloured stainless steels for architectural and decorative applications.

699/Cal/86. Trutzschler GmbH & Co. Kg. Procedure and device for the feeding of an opener or a cleaner for textile fibre flakes.

700/Cal/86. Gunnarshaug Olav Johannes. Roof Structure.

701/Cal/86. Hoechst Aktiengesellschaft. Water-soluble azo compounds, processes for their preparation and their use as dyes.

23rd September, 1986

702/Cal/86. Mannesmann Aktiengesellschaft. Conveying screw for furnace.

703/Cal/86. Hoechst Aktiengesellschaft. A process for the preparation of water-soluble naphthylazonaphthal compounds. [Divisional date 2nd December, 1983].

704/Cal/86. Mr. Norbert Umlauf. Device for pulling or braking of metallic strips.

## APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-110 005

25th August, 1986

760/Del/86. Manohar Sharma and Smt. Saroj Sharma. "A burner for gas stove or the like cooking and

heating range with improved burner for achieving greater thermal efficiency and to economical fuel consumption".

761/Del/86. Bharat Heavy Electricals Ltd., "A low calorific value gas".

762/Del/86. Glaverbel, "Forming refractory masses". (Convention date 7th September, 1985) (U.K.).

26th August, 1986

763/Del/86. UOP INC., "Novel motor fuel alkylation catalyst and process for the use thereof".

764/Del/86. Council of Scientific and Industrial Research, "An improved process for the preparation of 4, 4'-bis-dimethylaminodiphenyl sulphone".

765/Del/86. Gerald K. Yankoff, "Rotary flow control apparatus".

766/Del/86. Champion Spark Plug Europe S.A., "Driving mechanism for wiper blades".

767/Del/86. Dragerwerk Aktiengesellschaft, "Incubator for premature and new born babies".

768/Del/86. Bendix France, "Automatically adjustable and thermally lockable strut for a drum brake".

28th August, 1986

769/Del/86. Eicher Goodearth Limited, "Electronic or solid state regulator for dynamo circuits with batteries".

770/Del/86. Alcatel, "Miniature inductor and method of manufacturing same".

771/Del/86. Sanden Corporation, "Scroll type compressor with variable displacement mechanism".

772/Del/86. The Lubrizol Corporation, "A method of producing polymers and copolymers of amidosulfonic acid containing monomers and salts thereof".

773/Del/86. Alcan International Limited, "A process for the treatment of sodium cryolite containing waste for the recovery therefrom of fluorine values". (Convention date 25th January, 1983) (U.K.) and [Divisional date 12th January, 1984].

774/Del/86. National Council for Cement and Building Materials, "A bag for packaging of granular or particulate materials".

29th August, 1986

775/Del/86. Sulzer Brothers Ltd., "A solid fuel fired vapour producer".

776/Del/86. Uniroyal Chemical Co. Inc., "Process for the purification of ethylene/alphaolefin copolymers".

## APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, AT TODI ESATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-400013

4th August, 1986

215/Bom/86. Kirloskar Brothers Ltd. Foot Valve.

6th August, 1986

216/Bom/86. Kabushiki Kaisha Toshiba. Digital Controller.

217/Bom/86. Anant Sheshgiri Haranhalli. Production multiplying doff tube for open-end spinning machine.

7th August, 1986

218/Bom/86. Rayaprölu Kittappa. A trailer attachment for two-wheeled power driven vehicles.

219/Bom/86. Ramesh L. Harve and V. M. Bhate. Relieving mechanism for motor drives for isolators.

11th August, 1986

220/Bom/86. Kamal Nain Gupta. Improved frame for the tiffin carrier.

13th August, 1986

221/Bom/86. Hindustan Lever Ltd., Detergent Compositions. 16th Aug 1985. Great Britain.

222/Bom/86. Hindustan Lever Ltd. Detergent Compositions. 16th Aug. 1985 Great Britain.

223/Bom/86. Hindustan Lever Ltd., Detergent Compositions. 16th Aug. 1985 Great Britain.

224/Bom/86. Makhān Jhawar. A sterilizer unit.

14th August 1986

225/Bom/86. Arun Pannalal, Prakash Pannalal and Deepak Pannalal. A mast erection device.

226/Bom/86. K. R. Dholaria. A device to keep constant level of water in boilers.

227/Bom/86. The Boots Co. (India) Ltd. Therapeutic agents.

228/Bom/86. Bhabha Atomic Research Centre. An improved reverse osmosis tubular module for use in a reverse osmosis plant.

18th August, 1986

229/Bom/86. Bhalchandra Ramchandra Bedekar. An oven for baking chapatis, khakaras, pappad, thepla, tortillas and the like.

230/Bom/86. Kirloskar Brothers Ltd. Two stage monobloc pump.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

25th August, 1986

680/Mas/86. V. J. Bose. Water saving closet cup.

681/Mas/86. Eutectic Corporation. Cored tubular electrode and method for the electric-arc cutting of metals.

682/Mas/86. Eutectic Corporation. Cored tubular electrode and method for the electric-arc cutting of metals.

26th August, 1986

683/Mas/86. Sumitomo Chemical Company, Limited. Process for preparing N-alkylaminophenols.

684/Mas/86. El Paso Hydrocarbons Company. Selective processing of gases containing olefins by the mehra process.

685/Mas/86. Schlumberger Limited. Quantitative determination by elemental logging of subsurface formation by elemental logging of subsurface forma-

28th August, 1986

686/Mas/86. Lucas Industries Public Limited Company. Improvements relating to wheel mounted discs. (September 3, 1985; United Kingdom).

687/Mas/86. Lucas Industries Public Limited Company. Improvements relating to wheel mounted discs. (September 3, 1985; United Kingdom).

688/Mas/86. Lucas Industries Public Limited Company. Improvements relating to wheel mounted discs. (September 3, 1985; United Kingdom).

689/Mas/86. Buss AG. Method for further processing the Vacuum distillation residue in a crude oil refinery.

690/Mas/86. R. Clarke &amp; Co. (Moulds) Limited. Collapsible mould core. (August 30, 1985; Great Britain).

691/Mas/86. Amsted Industries Incorporated. Primary suspension for railway vehicle truck.

692/Mas/86. Shell Internationale Research Maatschappij B. V. Process and apparatus for producing synthesis gas. (August 30, 1985; Great Britain).

693/Mas/86. Duncan Vehicles Limited. Cleaning vehicles. (August 31, 1985; United Kingdom).

29th August, 1986

694/Mas/86. Srantilal Pranshankar Joshi &amp; Kiritkumar Shantilal Joshi. Measuring device for bangles and like (inner diameter).

695/Mas/86. Cloup Jean. A driving device, in particular for a proportioning pump of the piston-flowmeter type.

696/Mas/86. Mark Humphrey O'Sullivan. Processing of sugar cane. (September 16, 1985; Australia).

697/Mas/86. Atochem. Process for the preparation of aluminium chloride by the carbochlorination of aluminous substances.

698/Mas/86. Schubert &amp; Salzer Maschinenfabrik Aktiengesellschaft. A method and an apparatus for open and friction spinning.

699/Mas/86. Schubert &amp; Salzer Maschinenfabrik Aktiengesellschaft. An open end spinning apparatus.

700/Mas/86. Schubert &amp; Salzer Maschinenfabrik Aktiengesellschaft. Method and device for joining the thread in a friction spinning device.

## COMPLETE SPECIFICATION ACCEPTED

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Typed or photo, copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 128-G.

158335

Int. Cl. : A 61 b 19/00.

## PORTABLE LAVAGE DEVICE.

Applicant : DELTA MANUFACTURING AND SALES, INC., AT 2708 EAST RANDOL MILL ROAD, ARLINGTON, TEXAS 76010, U.S.A.

Inventors : 1. TERRY JOSEPH TALDO, 2. KENNETH RAY JACKSON.

Application No. 297/Cal/82 filed March 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims

A portable lavage device suitable for cleaning hands and arms, comprising :

- a tank for holding a cleaning fluid,
- a pump coupled to said tank for circulating said liquid,
- spaced nozzles coupled to said circulating pump and arranged to spray said liquid under cyclically varying pressure against an object to be cleaned,
- characterized in that said device comprises means for cyclically varying, without pulsating, the pressure of the liquid from a maximum to minimum pressure, not zero pressure during spraying.

Compl. Specn. 23 pages.

Drgs. 8 sheets.

CLASS : 114-F.

158336

Int. Cl. : C 14 c 3/00.

## A TANNING COMPOSITION AND A PROCESS FOR TANNING PELTS OR SKINS USING THE SAME.

Applicant : SANDOZ LTD., OF LICHTSTRASSE 35, 4002 BASLE, SWITZERLAND.

Inventors : 1. ROLF GROSS, 2. PETER SELLER.

Application No. 402/Cal/82 filed April 12, 1982.

Convention dated 13th April 1981 (8111559) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

A tanning composition in solid form comprising.

- (a) a ferrous (FeII) salt, and
- (b) an aliphatic hydroxy-carboxylic acid or salt thereof wherein the weight ratio of the ferrous salt (a) to component (b) is from 3 : 1 to 5 : 1.

Compl. Specn. 14 pages.

Drg. Nil.

CLASS : 11-C.

158337

Int. Cl. : A 01 k 39/00, 67/00.

## AN IMPROVED BEDDING MATERIAL FOR POULTRY OR OTHER ANIMALS.

Applicant & Inventors : GARETH DIETLOF JOHN WHITEHEAD AND THOMAS HENRY GARDNER, OF GAVESTON, 131 COWICK LANE, EXETER, DEVON, U.K. AND 8 HAVEN ROAD, EXETER, DEVON, U.K.

Application No. 530/Cal/82 filed May 12, 1982.

Convention dated 14th May, 1981 (8114833) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

An improved bedding material for poultry or other animal and having non-toxic high absorbancy and good thermal insulation properties and which are not supportive of bacterial growth comprising a layer of small or shredded pieces of absorbant non-toxic paper sheet such as newsprint of a range of different sizes, said layer having been distributed uniformly on the floor of an enclosure with a density of 0.2 to 1.0 Kg preferably 0.4 to 1.0 Kg per sq. metre, the pieces of paper having a size distribution in the range of 3 Cm<sup>2</sup> (0.59 sq. in) to 16 cm<sup>2</sup> (2.5 sq. in), the size distribution of the said paper pieces and their uniform distribution on the floor capable of forming a surface crust or cake on congealing at early stage of use while bedding poultry or other animals due to the absorption of the excrete from said poultry or other animals, said crust or cake being capable of breaking up into friable material over atleast an initial growth period, said enclosure having air vents adapted to be closed and/or opened when required.

Compl. Specn. 24 pages.

Drg. Nil.

CLASS : 161-D.

158338

Int. Cl. : E 01 c 7/36.

## AN IMPROVED METHOD OF PRODUCING STABILIZED SOIL FROM QUICK CLAY SOIL.

Applicant : CHEVRON RESEARCH COMPANY, OF 525 MARKET STREET, SAN FRANCISCO, CALIFORNIA, UNITED STATES OF AMERICA.

Inventors : 1. MARION G. REED, 2. TOR LOKEN, 3. ODD R. BRYHN.

Application No. 732/Cal/82 filed June 23, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim

An improved method of producing stabilized soil from quick clay soil, the improvement comprising admixing the quick clay soil with at least 2.5 grams of dry hydroxy-aluminium per 100 grams quick clay soil wet weight admixed therewith; and, if necessary, optionally admixing at least 1.0 grams of dry chemical per 100 grams of quick clay soil wet weight with said hydroxy aluminium and said quick clay soil, said dry chemical being selected from the group consisting of potassium chloride, potassium nitrate, potassium sulfate, ammonium chloride, ammonium nitrate and ammonium sulfate.

Compl. Specn. 35 pages.

Drg. 9 sheets.

CLASS : 99-E.

158339

Int. Cl. : B 65 d 79/00.

## A METHOD OF PRODUCING DECORATED METAL CONTAINERS AND DECORATED METAL CONTAINERS PRODUCED THEREBY.

Applicant : METAL BOX p.l.c., OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JH, BERKSHIRE, ENGLAND.

Inventors : 1. LEONARD ANTHONY JENKINS, 2. TERENCE ARTHUR TURNER.

Application No. 808/Cal/82 filed July 14, 1982.

Convention dated 14th July 1981 (8121726) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 9 Claims

A method of producing decorated metal containers, including, in respect of each of a succession of metal containers, applying a carrier printed with indicia in sublimable dyestuff over a coating receptive to such dyestuff on a side-wall surface of the container, temporarily holding by means of adhesive the carrier on the container such as to be removable without damage to the coating, heating the container whilst the carrier is held to it, so that a substantial proportion of the dyestuff sublimes so as to transfer the indicia into the coating, allowing the container to cool, and stripping the carrier and the adhesive characterised in that on to each container is applied a separate flexible carrier in the form of a hoop which encircles the container and is held thereon by adhesive and the container is heated at such a temperature and for such a time that the carrier shrinks into intimate contact with the receptive coating.

Compl. Specn. 26 pages.

Drg. 2 sheets.

CLASS : 68-D.

158340

Int. Cl. : G 05 f 3/02.

### SYSIHM FOR PROVIDING PROTECTION FOR A HIGH VOLTAGE TRANSMISSION LINE.

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. LEONARDO PEREZ CAVERO.

Application No. 1021/Cal/82 filed September 2, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 6 Claims

A system comprised of a phase selector relay and a distance measuring relay both for protecting one or more phases of one or more zones of a high voltage A.C. transmission line, said phase selector relay developing a first operating signal  $V_{OP1}$  and a first polarizing signal  $V_{POL1}$  for each phase of the transmission line and each representative of the current and voltage conditions existing in each of the phases, said distance measuring relays developing a second operating signal  $V_{OP2}$  and a second polarizing signals  $V_{POL2}$  for each phase of the transmission line and each representative of the current and voltage conditions existing in each of the phases, said protective system further having a first and a second phase angle comparator comprising respectively interconnected first and second AND circuit means and first and second TIMER means. said first AND circuit means being responsive to the phase coincidence between said first operating signal ( $V_{OP1}$ ) and said first polarizing signal ( $V_{POL1}$ ) for developing a first output signal which is routed to and activates said first TIMER means, said first TIMER means generating a first control signal upon the expiration of a first predetermined time duration, said second AND circuit means being responsive to said first control signal and to the phase coincidence between said second operation signal ( $V_{OP2}$ ) and said second polarizing ( $V_{POL2}$ ) signal for developing a second output signal which is routed to and activates the second TIMER means, said second TIMER means generating a second control signal upon the expiration of a second predetermined time duration, each of said first and second control signals being adapted to control circuit breaking means for causing said one or more phases of the one or more

zones of the transmission line to be decoupled from the remainder of the transmission line, said protective system further comprising means for developing said  $V_{OP1}$ ,  $V_{POL1}$ ,  $V_{OP2}$  and  $V_{POL2}$  signal respectively, representative of the following relationships.

(a)  $V_{OP1} = K_4 \left[ (I_P - I_0) Z_{RI} + K_0 I_0 Z_{RO} - V_{PN} \right] + 3 V_{PIM}$

where the subscript P shown for the current (I) and voltage (V) quantities is either A, B, or C to indicate the particular phase of the transmission line related to the particular phase of the  $V_{OP1}$  signal;

$K_3$ ,  $K_4$  and  $K_5$  are phase selector relay constants;

$K_0$  is a zero-sequence line impedance compensation factor substantially equal to the amplitude of the quantity  $Z_{LO}/Z_{LI}$  where  $Z_{10}$  is equal to the zerosequence line impedance and  $Z_{LI}$  is equal to the positive sequence line impedance;

$I_0$  is the zero-sequence current flowing within the three (3) phase transmission line;

$Z_{RI}$  is the replica positive impedance of the transmission line;

$Z_{RO}$  is the replica positive sequence impedance of the transmission line, but with the phase angle of the zero-sequence impedance of the transmission line.

$I_P$  is representative of the current flowing in the transmission line related to the particular phase of the  $V_{OP1}$  signal;

$V_{PIM}$  is the positive sequence component of a prefaulted transmission line voltage related to the particular phase of the  $V_{OP1}$  signal, and;

$V_{PN}$  is the phase-to-neutral voltage of the transmission line related to the particular phase of the  $V_{OP1}$  signal;

(b)  $V_{POL1} = K_2 V_{PIM}$

where  $K_2$  is a phase selector relay constant, and;

$V_{PIM}$  is the positive sequence component of the prefaulted transmission line voltage related to the particular phase of the  $V_{POL1}$  signal;

(c)  $V_{OP2} = K_8 \left[ (I_P - I_0) Z_{RI} + K_0 I_0 Z_{RO} - V_{PN} \right]$  where  $K_8$  is a distance measuring relay constant;

$K_0$ ,  $I_P$ ,  $I_0$ ,  $V_{PN}$ ,  $Z_{RI}$  and  $Z_{RO}$  are as described for expression (a);

(d)  $V_{POL2} = K_6 I_{P2} X_R - K_7 V_{P2}$

where  $K_6$  and  $K_7$  are distance measuring relay constants;

$X_R$  is the replica negative sequence reactance of the transmission line;

$I_{P2}$  is the negative sequence component of the current flowing in the transmission line related to the particular phase of the  $V_{POL2}$  signal, and;

$V_{P2}$  is the negative sequence component of the voltage existing in the transmission line related to the particular phase of the  $V_{POL2}$  signal.

Compl. Specn. 53 pages.

Drg. 9 sheets.

CLASS : 32-E. 158341

Int. Cl. : C 08 g 5/06.

**PROCESS FOR PRODUCING AN IMPROVED PARTICULATE RESOLE RESIN.**

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT (06817), UNITED STATES OF AMERICA.

Inventor : 1. PETER WILLIAM KOPF.

Application No. : 1050/Cal/82 filed September 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

A process for producing an improved particulate, resole resin having an improved cure rate and sinter resistance comprising the steps of :—

(a) reacting (1) formaldehyde, (2) a phenol, and (3) an effective amount as herein defined, of hexamethylene-tetramine or a compound containing amino hydrogen, or mixtures thereof as herein described in an aqueous medium containing an effective amount, as herein defined, of a protective colloid, for a period of time, as herein defined, to produce a particulate, resole resin dispersed in the aqueous medium;

Characterized by :—

(b) cooling the reaction mixture to below 40°C;

(c) reacting the cooled reaction mixture with an alkaline compound as herein described for a period of time, as herein defined, to produce a treated resin exhibiting increased cure rates and increased sinter resistance; and

(d) recovering by known procedures the resin from the aqueous dispersion.

Compl. Specn. 25 pages.

Drg. Nil.

CLASS : 129-C & G. 158342

Int. Cl. : E 21 b 43/116.

**A WELL PERFORATING GUN STEPPED WIRING HARNESS ASSEMBLY FOR A WELL PERFORATING GUN SELECTIVE FIRING SYSTEM AND A METHOD FOR PRODUCING THE SAID ASSEMBLY.**

Applicant : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE NEW YORK, NEW YORK 10017, U. S. A.

Inventor : 1. THOMAS H. ZIMMERMAN.

Application No. 1170/Cal/82 filed October 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**5 Claims**

A well perforating gun stepped wiring harness assembly for a well perforating gun selective firing system having a vertically spaced array of selectively actuatable perforating guns adapted for lowering and positioning within a well bore, characterized by :—

a stepped wiring harness assembly for a predetermined subset of the perforating guns and connectable in a series configuration to other such assemblies,

said harness assembly having a receiving connector and a matching transmitting connector for connecting to other such wiring harness assemblies in a series configuration, and having internal connecting wires arranged to increment the connections between the respective connectors thereon, and

coupling means in said harness assembly responsive to an electrical addressing signal on a predetermined said connecting wire for controllably energizing the perforating guns associated therewith, said incremented connecting wires thereby electrically incrementing all succeeding conductors in such a series, such that the guns uniquely associated with any one such assembly in a series of identical such wiring harness assemblies can be addressed by addressing the particular electrical conductor which is cumulatively indexed by such harness assemblies thereto.

Compl. Specn. 13 pages.

Drg. 2 sheets.

CLASS : 32-E + 34-A. 158343

Int. Cl. : D 01 f 7/02.

**PROCESS FOR THE PRODUCTION OF POLYMER FILAMENTS HAVING HIGH TENSILE STRENGTH AND MODULUS.**

Applicant : STAMICARBON B. V., OF P. O. BOX 10, GELEEN, THE NETHERLANDS.

Inventors : 1. PAUL SMITH, 2. PIETER JAN LEMSTRA, 3. ROBERT KIRSCHBAUM, 4. JACQUES PETER LAURENTIUS PIJPPERS.

Application No. : 1214/Cal/82 filed October 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**9 Claims**

Process for the production of polyethylene filaments having high tensile strength by spinning in a known manner a solution of high-molecular weight polyethylene and stretching the filaments, characterized in that a solution of an ethylene polymer or copolymer containing at most 5% by wt. of one or more alkeness with 3 to 8 carbon atoms and having a weight-average molecular weight  $M_w$  higher than  $4.10^5$  kg/kmole and a weight/number-average molecular weight ratio  $M_w/M_n$  lower than 5 with at least 80% by wt. of solvent is spun at a temperature above the gel point of that solution, the spun product is cooled to below the gel point and the filament obtained is stretched, in the form of a gel containing or not containing a solvent as herein described, to form a filament having a tensile strength of more than 1.5 GPa, measured at room temperature.

Compl. Specn. 13 pages.

Drg. Nil.

CLASS : 136-E. 158344

Int. Cl. : B 29 d 27/00.

**INTEGRAL PLASTICS MATERIAL MESH STRUCTURE, UNIAXIALLY OR BIAXIALLY STRETCHED.**

Applicant : P. L. G. RESEARCH LIMITED, OF 16-17, RICHMOND TERRACE, BLACKBURN, LANCASHIRE, ENGLAND.

Inventor : 1. FRANK BRIAN MERCER.

Application No. : 1295/Cal/82 filed November 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims**

An integral plastics material mesh structure which has been obtained by stretching a starting material having therein a uniform, regular or repeat pattern of holes or depressions which form the mesh openings in the mesh structure, characterized in that the said mesh structure can be uniaxially or biaxially stretched, and comprises, when uniaxially stretched, a substantial number of spaced parallel parts which run substantially right across the structure substantially at right angles to the direction of stretch, said parts comprising at least zones regularly spaced along their lengths which are unorientated or orientated only to a low degree, and said parts either being continuous, or being discontinuous and interrupted by regularly-spaced mesh openings, each disconti-

nuous length so formed being connected to the adjacent discontinuous length of the same said part by at least two highly-orientated strands whose axes are inclined to each other but which extend generally in the direction of stretch, and each of which highly-orientated strands has one end connected to a respective said discontinuous length and the other end connected to the other highly-orientated strand at a junction : said continuous parts being connected to adjacent said continuous parts, or said junctions of said discontinuous parts being connected to said junctions of adjacent said discontinuous parts, by highly-orientated interconnecting strands extending generally in the direction of stretch and which comprise generally parallel, spaced, side-by-side strands each end of each of which forks into two further said interconnecting strands, said further interconnecting strands being connected to respective said parts or to respective said junctions.

Compl. Specn. 29 pages.

Drg. 6 sheets.

CLASS : 17A<sub>2</sub> & 32F<sub>3</sub>(c).

158345

Int. Cl. : C12g 3/04 &amp; 3/02 C07c 31/08.

**"A PROCESS FOR THE CONVERSION OF STARCH BASED AGRICULTURAL PRODUCTS INTO ALCOHOL".**

Applicant : PUNJAB TRACTORS LTD., OF PHASE IV, SAHIBZADA AJIT SINGH NAGAR, DISTT. ROPAR-160 051, INDIA, AN INDIAN COMPANY.

Inventor : DHARAMVIR VADEHRA.

Application for Patent No. 256/DEL/1982 filed on 26th March, 1982.

Complete specification left on 18th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**4 Claims**

A process for conversion of starch based agricultural produce into alcohol which consists in converting said starch based agricultural produce into a mixture of glucose and maltose subjecting said mixture so obtained to a known step of fermentation to obtain alcohol and finally subjecting the alcohol to the known step of concentration characterised in that said step of conversion of the agricultural produce to a mixture of glucose and maltose consists in a first enzymatic treatment with amalysin at a temperature of 80 to 95°C followed by a second enzymatic treatment with glucozyme at a temperature of 50 to 55°C.

Provisional Specification 6 pages.

Complete Specn. 9 pages.

CLASS : 21 B &amp; 29 C.

158346.

Int. Class : A43b, 3/00, 7/04 &amp; G01c, 22/00.

**"BOOT OR SHOE INCORPORATING PODEMETER OR THE LIKE".**

Applicant : WILLIAM NEVIL HEATON JOHNSON, OF BARNET HOUSE, TOTTERIDGE, LONDON, N.20, ENGLAND, A BRITISH CITIZEN.

Inventor : WILLIAM NEVIL HEATON JOHNSON.

Application for Patent No. 320/DEL/1982 filed on 23rd April, 1982.

Convention date 25.4.1981 & 28.9.1981/8112807 & 8129212 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims.**

A boot or shoe having a housing for accommodating numerical display means for displaying a numerical quantity and means for signalling the numerical quantity so displayed, said means operable by the wearer of the boot or shoe when taking a step, characterised by an electronic transducer providing an electrical signal for each step detected, an electrical circuitry embodying electronic counting and processing means for counting such signals, and electrical or electronic display means connected to and activatable by said counting and processing means to display numerical quantities derived thereby, said display means comprising a display element visible from the exterior of the shoe, and user operable selection means connected to said counting and processing means for controlling said counting and processing means and therethrough the operation of the display means for displaying any selected one of a variety of quantities such as herein described.

Compl. Specn. 12 pages.

Drg 2 sheets.

CLASS : 40 F.

158347

Int. Class: B01l 11/00.

**"REACTION TRAY".**

Applicant : TECHNICON INSTRUMENTS CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF 511 BENEDICT AVENUE, TARRYTOWN STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : MICHAEL MILLJET CASSADAY, KENNETH FRANK UFFENHEIMBER, HERMAN GUY HERMAN & DARIO SVENJAK.

Application for Patent No. 407/DEL/1982 filed on 28th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

**7 Claims**

An improved reaction tray comprising a plurality of reaction cuvettes which are circularly disposed around an axis, whereby rotation of said tray advances, in turn, each cuvette to a dispensing station, characterised in that said cuvettes each have an opening therein for receiving liquid at said dispensing station and an interior surface opposite said opening with one or more inwardly extending projections of hydrophilic material and in that portions of two parallel walls of said cuvettes define a sight passageway for analysis of the contents therein.

\* Compl. Specn. 14 pages. Drgs. 3 sheets.

CLASS : 85 G.

158348

Int. Class : F 27 b 9/02.

**"A FURNACE OPERATED BY ELECTRIC HEATING FOR THE PREPARATION SILICON CARBIDE."**

Applicant : DRESSER INDUSTRIES, INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, ONE OF THE UNITED STATES OF AMERICA, OF THE DRESSER BUILDING P.O. BOX 718 DALLAS, TEXAS 75221, U.S.A., MANUFACTURERS.

Inventor : JAMES DAVIS PHILLIPS.

Application for Patent No. 428/DEL/1982 filed on 3rd June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A furnace operated by electric heating for the preparation of silicon carbide from a load of silicious and carbonaceous material of the kind such as herein described which comprises an electrical power source, an enclosure, electrodes connected to a resistant core of carbon for supplying current through said resistant core, said resistant core being horizontally inserted within said load, said core and said load being of broken ring configuration to together define a centrally located first circular space, the wall of said enclosure being of ring-like configuration and spaced from said furnace for defining a second circular space concentric to and spaced radially outward from said centrally located first space, characterized by means for loading the furnace in said broken ring configuration comprising a material handling device supported for rotation at the centre of the first space for placing said load throughout the extent of said core and means for unloading the furnace moveably located within said first space.

Compl. Specn. 12 pages. Drgs. 1 sheet.

CLASS : 127 C.

158349

Int. Class : F 16g 1/28, 7/06 and F 16i 9/24.

"BELT TRANSMISSION SYSTEM WITH A TENSION-ADJUSTING DEVICE THEREFOR."

Applicant : PIAGGIO & C. S.p.A., A COMPANY ORGANIZED UNDER LAWS OF THE ITALIAN REPUBLIC OF VIA A. CECCHI 6, GENOVA, ITALY.

Inventor : CARLO DOVERI.

Application for Patent No. 528/DEL/1982 filed on 13th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A belt transmission system with a tension-adjusting device for the belt which runs on two pulleys mounted on a support which is subject to thermal expansion, the device comprising a tensioning idler mounted on a member which is movable relative to the support to urge the idler against the belt, wherein compensating means are arranged between the support and said member to oppose the movement of the said member in a direction which would result in separation of the idler from the belt, said means being thermally expansible such that displacement of the idler by the belt is limited to that required by thermal expansion of the support.

Compl. Specn. 8 pages. Drgs. 2 sheets.

Class : 69 G.

158350

Int. Class : H 01h 3/04.

"AN IMPROVED MICROSWITCH".

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY, PROEKTNO-KONSTRUKTORSKY I TEKHNOLOGICHESKY INSTITUT VZRYVOZASCHISCHENNOGO I RUDNICHNOGO ELEKTROOBORUDOVANIA A U.S.S.R. COMPANY OF ULITSA 50, GVARDEISKOI DIVIZII, 17, DONETSK U.S.S.R. AND SPETSIALNOE-KONSTRUKTORSKOE BIURO KHARKOVSKOGO ELETROAPPARATNOGO ZAVODA. A U.S.S.R. COMPANY OF ULITSA KOTI OVA, 106, KHARKOV, U.S.S.R.

Inventor : ALEXANDER PAVLOVICH POLTORAK, VADIM VLADIMIROVICH EMELYANENKO, VITALY IVANOVICH SCHUTSKY, VALENTIN VASILIEVICH MORGUNOV, VYACHESLAV GEORGIEVICH MIRO-NENKO, EDUARD SAMOJLOVICH ROZENTAL, VLADIMIR IVANOVICH LITVINOV, VLADIMIR FEDOROVICH KOSOVTSOV, FEDOR PETROVICH CHALY, VLADIMIR AVFEDOROVICH ZAGUBELJUK, NIKOLAI IVANOVICH FILATOV.

Application for Patent No. 533/DEL/1982 filed on 13th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

An improved microswitch comprising an insulating base, fixed contacts secured on the insulating base, a movable contact adapted for selectively contacting the fixed contact, an actuating member, and means for shifting the movable contact; by the use of the actuating member, characterised in that the said means including an actuating lever, an intermediate lever, a flat spring, and a contact lever all connected in series with one another, the outer end of the actuating lever and the middle portion of the contact lever being mounted for swinging on the insulating base, the other end of the actuating lever being connected with an end of the intermediate lever, the movable contact and a limit stop being located on one end of the contact lever, and the other end thereof being connected with an end of the flat spring, the other end of the intermediate lever being connected with the other end of the flat spring and bearing up against the limit stop.

Compl. Specn. 15 pages. Drgs. 6 sheets.

CLASS : 176 F.

158351

Int. Cl. : F22b-23/02, 37/20, 37/24 F28f-5/00.

"WASTE HEAT BOILERS".

Applicant : BABCOCK POWER LIMITED, a British company of Maypole House, 128—132 Borough High Street, London SE1 1LB, England.

Inventor : PETER LAMBERT TRACEY.

Application for Patent No. 547/DEL/1982 filed on 19th July 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

## 4 Claims

A waste heat boiler comprising a bank of parallel connected return-flow tubes with horizontal limbs in an up flow gas path with vertical plane apertured plates spacing and supporting the tubes at two or more localities along the lengths of the tube horizontal limbs, wherein each of the apertured plates is sub-divided into a plurality of vertically extending apertured plate strips, unattached to one another, in a row transverse to the limb directions, each apertured plate strip serves to support the horizontal limbs of not more than three tubes and each row of apertured plate strips lies wholly within the space between a common upper horizontal securing member in the gas flow and a common horizontal lower securing member in the gas flow, both transverse to the tube limb directions, to which securing means the apertured plate strips of the row are individually removable secured by removable attachment means the tube or tubes associated with a row of apertured plates said tube or tubes being removable and replaceable horizontally following removal of the attachment means of the associated plates.

Compl. Specn. 15 pages.

Drgs. 4 sheets.

CLASS : 31B, 168C, 206E & 186A.

158352

Int. Cl. : H04j 3/00, G08b 9/00 & G08c 19/00.

"SYNTHETIC REACTOR CIRCUIT".

Applicant : COMPAGNIE INDUSTRIELLE DFS TEJ E-COMMUNICATIONS CIT-ALCATEL, of 12, rue de la Baume, 75008 Paris, France, a French Company.

Inventor : GUY LE BRAS AND JEAN-PAUL LE MAIRE.

Application for Patent No. 575/DEL/1982 filed on 28th July, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A synthetic reactor circuit, comprising : two connection terminals connected to the AC terminals of a full wave rectifier bridge which also has a positive terminal and negative terminal; a main circuit connected between the positive terminal and the negative terminal, and comprising a transistor and a main resistor connected in series; a voltage divider bridge also connected between the positive and the negative terminals, and comprising a first resistor connected in series with a second resistor, and a capacitor connected in parallel with the second resistor; a first amplifier connected as a voltage follower its negative input terminal connected to its output terminal and a positive input terminal connected to the common point between the first and second resistors of the voltage divider bridge; and analog multiplexer having a signal input terminal connected to the output terminal of the first amplifier via a diode, and having a plurality of output terminals selectively connectable to said signal input, and each connected via a respective impedance-determining resistor to one end of a reference resistor having another end connected to the negative terminal of the rectifier bridge; a second amplifier connected as a voltage follower having an output terminal connected to the base of the main transistor, a negative input terminal connected to the emitter of the main transistor, and a positive input terminal connected to the common point between the reference resistor and the impedance-determining resistors; and a DC power supply powering the analog multiplexer and the first and the second amplifiers, the negative terminal of the power supply being connected to the negative terminal of the rectifier bridge.

Compl. Specn. 13 pages.

Drg. one sheet.

CLASS : 148M.

158353

Int. Cl. : G03g 15/00 &amp; G03b 27/00.

**"AN ELECTROSTATIC PHOTOCOPYING APPARATUS".**

Applicant : SHOURIE COPIEURS PRIVATE LIMITED, of 2-A, DLF, Industrial Area, New Delhi-110 015, India, an Indian Company.

Inventor : DILIP KUMAR GANGULY.

Application for Patent No. 603/DEL/1982 filed on 6th August, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

## 13 Claims

An electrostatic photocopying apparatus in which printed and like matter is directly transferred from an original sheet to a sensitized paper web comprising a feed means for feeding a sub-strate of paper web to a charging station including a charging chamber for electrostatically charging said paper web, an exposure chamber for exposing the charged sheet, to the original said charging and exposure chamber being disposed along the same vertical axis, a focusing means for focusing the matter on the said original to the said substrate, a developing station for receiving the exposed substrate from said exposure chamber and a receiving station for receiving the said paper substrate, said apparatus further comprising a station for receiving the said original, a timer for moving the original and the paper substrate in synchronization to each other and for disconnecting the prime mover from a power source when the paper web, is discharged into said receiver.

Compl. Specn. 18 pages.

Drag. 3 sheets.

CLASS : 86 A.

158354

Int. Class : A41f 19/00.

**"A RETRACTABLE CLOTHESLINE".**

Applicant : MRS. VIMAL GOYAL, AN INDIAN NATIONAL, OF D-25, PANCHSHEEL ENCLAVE, NEW DELHI-110 017, INDIA.

Inventor : VIMAL GOYAL.

Application for Patent No. 685/DEL/1982 filed on 8th September 1982.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 4 Claims

A retractable clothesline used for hanging clothes and the like comprising a base plate and a cover, a spring loaded wheel mounted within said cover on the base plate, a cord adapted to be wound on the wheel with one end of the said cord extending outwardly from the centre of the said cover to which is held a knob capable of being fixed to a hook while the other end of the cord being held to the wheel, characterised in that said retractable clothesline being mounted on a wall while the plate provided with a slot for locking the knob at the said end of the cord being mounted on a wall opposite the said retractable clothesline at a distance apart, said wheel is mounted on the base plate by a stem provided with the said base plate, a spring washer held to the said stem above said wheel thereby securely holding the said wheel with the base plate a washer of thermoplastic or rubber material provided with the said cover at its centre thereof through which the said cord is adapted to pass an a plurality of tongues extending upwardly from the base, said tongues being equidistantly spaced from each other and disposed around and in a spaced relationship to said stem for holding one end of said spring washer.

Compl. Specn. 10 pages. Drg. 1 sheet.

CLASS : 72-B.

158355

Int. Cl. C 06 b 15/02.

**IMPROVEMENTS IN THE PREPARATION PROCESS OF EXPLOSIVE SLURRIES.**

Applicant : UNION EXPLOSIVOS RIO TINTO, S.A. OF PO DE LA CASTELLANA 20, MADRID, SPAIN.

Inventor : 1. ANTONIO GAMERO BRIONES.

Application No. 1394/Cal/82 filed November 30, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim

Improvements in the preparation process of explosive slurries, characterized by using as sensitizing agents salts of oxidizing acids with heterocyclic nitrogen compounds such as piperazine and morpholine nitrates either alone or associated with other sensitizing agents such as herein described being such a process defined by the following stages in which it is used the amounts of each product in percentage by weight on the final product stated :

(a) to prepare of solid mixture containing 4.5—5% of fecula; 19.21% of oxidizing salts as ammonium nitrate and sodium nitrate; 1% of crosslinking agent and, optionally, 24-26% of sensitizing agent as amine nitrates and/or nitrates of heterocyclic compounds with nitrogen (b) to prepare optionally aqueous solutions of sensitizing agents, in case of not having been included or fully included in the stage (a) by solution thereof at 60°C at a slightly acid pH, which can be adjusted by adding small quantities of caustic soda, and which suppose 24-26% of sensitizing agent and 2-9% of water (c) to prepare an aqueous solution at 70°C for 10 hours with 30-40% of oxidizing salts as ammonium nitrate and sodium nitrate, 0.1-0.2% of GUAR gum, 0.4% of ethylene glycol and 6-10% of water (d) to mix the preparations (a), (c) and (b) in this order, and, if necessary, to add 3% of gasifying agent or vitreous micro-spheres to this mixture.

Compl. Specn. 10 pages. Drg. nil.

CLASS : 40-II.

158356

Int. Cl. B 01 d 53/00.

AN ABSORPTION PROCESS FOR THE REMOVAL OF H<sub>2</sub>S-CONTAINING SOUR GAS FROM A RAW GASEOUS MIXTURE CONTAINING CARBON MONOXIDE AND AT FEDERAL REPUBLIC OF GERMANY.

Applicant : LINDE AKTIENGESELLSCHAFT, ABRAHAM-LINCOLN-STRASSE 21 D-6200 WIESBADEN, FEDERAL REPUBLIC GERMANY.

Inventors : 1. GEORG BENGESER, 2. GERHARD RANKE.

Application No. 1427/Cal/82 filed December 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 claims

In an absorption process for the removal of H<sub>2</sub>S-containing sour gas from a raw gaseous mixture containing carbon monoxide and at least one heavy metal carbonyl, said process comprising scrubbing said gaseous mixture under superatmospheric pressure at a temperature of below 0°C with a scrubbing medium capable of absorbing said H<sub>2</sub>S-containing sour gas, heating resultant loaded scrubbing medium in a heat exchanger, and expanding resultant loaded scrubbing medium to liberate the H<sub>2</sub>S-containing sour gas and regenerate the scrubbing agent, wherein in the absence of a preventive measure, said heat exchanger is fouled by heavy metal sulfides, the improvement which comprises raising the CO partial pressure, during the heating of the loaded scrubbing medium in said heat exchanger, to above the partial pressure of the CO in equilibrium with the heavy metal carbonyl in the scrubbing medium to avoid decomposition of heavy metal carbonyl into reactive heavy metal and CO, thereby preventing the formation of heavy metal sulfide from the reaction of reactive heavy metal with H<sub>2</sub>S.

Compl. Specn. 18 pages. Dres. 2 sheets.

CLASS : 40-B.

158357

Int. Cl. B 01 j 11/00.

PROCESS FOR PREPARING A SOLID CATALYTIC COMPONENT FOR THE POLYMERIZATION OF ALPHA-OLEFINS.

Applicant : MONTEDISON S.p.A., OF 31, FORO BUONA-PARTE, MILAN, ITALY.

Inventors : 1. ILLARO CUFFIANI, 2. PAOLO LONGI, 3. UMBERTO ZUCCHINI, 4. GIANNI PENNINI.

Application No. 1480/Cal/82 filed December 23, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 claim

Process for preparing a solid catalytic component for the polymerization of alpha-olefins CH<sub>2</sub>=CHR wherein R is a C<sub>2</sub>C<sub>6</sub> alkyl and of mixtures thereof with minor amounts of ethylene, which comprises subjecting an emulsion or dispersion, in an inert liquid medium or in an inert gas phase of a liquid medium compounds or compositions containing Ti and Mg compounds as herein described that in the liquid state are immiscible in aliphatic hydrocarbons, or transformation products of precursors of said compounds or compositions as herein described said precursors being, in the liquid state, immiscible in aliphatic hydrocarbons, to reaction whereby formation of a solid phase comprising a titanium compound supported on to a magnesium halide occurs.

Compl. Specn. 24 pages.

Dr. vñl.

CLASS : 40-B.

158358

Int. Cl. : B 01 j 11/00.

A PROCESS FOR PREPARING HIGH-YIELD CATALYST COMPONENTS FOR THE POLYMERIZATION OF ETHYLENE AND MIXTURES THEREOF WITH ALPHA-OLEFINS.

Inventors : 1. ILLARO CUFFIANI, 2. PAOLO LONGI, 3. UMBERTO ZUCCHINI, 4. GIANNI PENNINI.

Application No. 1481/Cal/82 filed December 23, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Process for preparing high-yield catalyst components for polymerization of ethylene and mixture of ethylene with olefins capable of giving polymers having controlled morphology characterized in that the following components are combined to form an emulsion or dispersion :-

(a) an inert liquid medium or a gaseous inert phase of a liquid medium with

(b) a liquid phase which is immiscible with aliphatic hydrocarbons, said liquid phase comprising a compound or composition containing a transition metal compound of group IV-VI of the periodic system.

Compl. Specn. 36 pages.

Drg. Nil.

CLASS : 71-A; 72-C &amp; D.

158359

Int. Cl. : C 06b 7/00, 7/02.

## NON-ELECTRIC BLASTING ASSEMBLY.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : 1. MALAK ELIAS YUNAN.

Application No. 1483 Cal/82 filed December 23, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

A non-electric blasting assembly comprising

(a) a percussion-actuated detonator comprising a tubular metal detonator shell integrally closed at one end and closed at the other end by a partially empty, shorter tubular metal primer shell having an open end and supporting a percussion-sensitive primer charge adjacent the inside surface of an integrally closed end, said primer shell extending open end first into said detonator shell to dispose the outside surface of its primer charge end across the end of said detonator shell, said detonator shell containing, in sequence from its integrally closed end, (1) a base charge of a detonating explosive composition and (2) a priming charge of a heat-sensitive detonating explosive composition; and

(b) low-energy detonating cord (LEDC) adjacent the outside end surface of said primer shell; the characterized in that a length of LEDC arrayed in a manner such that a pair of axially separated segments thereof are anchored in place, or two lengths of LEDC arrayed in a manner such that a segment from each length is anchored in place, in side-by-side relationship adjacent the outside end surface of said primer shell.

Compl. Specn. 31 pages.

Drg. 3 sheets.

CLASS : 127-I.

158360

Int. Cl. : B 23 q 1/00, 5/00.

**A DRIVE MECHANISM FOR DRIVING A MOVABLE MEMBER OF A MACHINE TOOL.**

Applicant : KEARNEY & TRECKER CORPORATION, OF 11000 THEODORE TRECKER WAY WEST ALLIS, WISCONSIN 53214, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD JOHNSTONE.

Application No. 313/Cal/83 filed March 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**2 Claims**

A drive mechanism for driving a movable member of a machine tool in a predetermined path of travel relative to a support; comprising a screw rigidly mounted on said support and fixed against rotation; a nut in meshing engagement with said screw; and an electric motor coupled to rotate said nut relative to said screw, said motor comprising a stator having a central bore and being secured to said movable member so that it is fixed against rotation; a rotor within the central bore of said stator having an axial opening for receiving said nut; and means securing said nut to said rotor within its axial opening for rotation in unison therewith for providing a direct drive between said rotor and said nut to produce the movement of said movable member; a transducer connected to be driven by the rotation of said nut for continually indicating the rotary position of said rotor; a numerical control circuit connected to regulate the operation of said motor in accordance with a predetermined program to produce the desired movement of said movable member; and means connecting said transducer to said numerical control circuit for transmitting the information produced by said transducer to said numerical control circuit to enable the latter to continually monitor the rotary position of said rotor during the movement of the movable member.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 98-G.

158361

Int. Cl. : H 01 I 1/00.

**A HEAT SINK FOR SEMICONDUCTOR ELEMENTS.**

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF MUNICH, WEST GERMANY.

Inventors : 1. KURT GROSSMANN, 2. JURGEN BLIESNER, 3. JOACHIM SCHIKOR.

Application No. 380/Cal 83 filed March 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims**

A heat sink for semiconductor elements, which has a recess having side walls opposite each other; and compression means for reception in the recess to press such semiconductor elements between the compression means and the side walls.

Compl. Specn. 12 pages.

Drg. 3 sheets.

CLASS : 32-F<sub>3</sub> c.

158362

Int. Cl. : C 12 b 1/00; C 12 c 11/08.

**A PROCESS AND A FERMENTER FOR THE PRODUCTION OF ALCOHOL.**

Applicant : SOCIETE DES PRODUITS NESTLE S. A., CASE POSTALE 353, 1800 VEVEY, SWITZERLAND.

Inventor : 1. VLADIMIR KALINA.

Application No. 465/Cal/83 filed April 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**13 Claims**

A process for the production of ethyl alcohol by the continuous fermentation of a must containing yeast circulating in a closed circuit under the effect of mammoth pump, fresh must being continuously injected into the circuit and fermented must being continuously removed from the circuit, characterized in that the must is stirred in the lower part of a fermentation vat by the injection of a descending flow of recycled must, a back pressure is applied to the top of the vat so that carbon dioxide gas which is released by the fermentation remains compressed in the upper part of the vat, the carbon dioxide gas is allowed to exert the mammoth pumping action in a pumping column located above the vat, the must is recycled by allowing it to descend in a turbulent flow in a return pipe, and a mixture of oxygen and inert gas is injected into the upper part of the return pipe.

Compl. Specn. 18 pages.

Drg. 1 sheet.

CLASS : 33-D.

158363

Int. Cl. : B 22 d 41/06.

**A CASTING DEVICE.**

Applicant : GEORG FISCHER AKTIENGESELLSCHAFT, CH-8201 SCHIAFFHAUSEN, SWITZERLAND.

Inventors : 1. HERMANN MUTSCHLECHNER, 2. HERBERT PLATZER, 3. RUDOLF PAVLOVSKY.

Application No. 616/Cal/83 filed May 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A casting device comprising a converter vessel, at least one chain guide segment fixed to said converter vessel, means for driving said guide segment, said guide segment having a first segment arc and a second segment arc serially arranged thereon, each of said first and second segment arcs having a different radius, wherein the improvement comprises only one tilting arm connected to each said guide segment, said tilting arm being elongated, a first bearing block and a second bearing block positioned on and disposed in spaced relation in the elongated direction of said tilting arm, said first segment arc having a smaller radius than said second segment arc, a stationary axle mounted in said second bearing block, said stationary axle forming the pivot point of the radius of said second segment arc, a tilting axle mounted in said first bearing block and said tilting axle forming the pivot point of said first segment arc, and said means for driving said guide element comprises only one driving member connected to each said guide segment, said converter vessel and said at least one guide segment being pivotally displaceable relative to said tilting arm about said tilting axle, and said converter vessel guide segment and tilting arm being pivotally displaceable about said stationary axle.

Compl. Specn. 8 pages.

Drg. 5 sheets.

**OPPOSITION PROCEEDINGS**

An opposition has been entered by Orissa Cement Limited to the grant of a patent on application No. 157516 made by Kumardhuli Fire Clay Silica Works.

**PATENTS SEALED****(1)**

151241 155375 155758 155787 155858 155956 155986 155992  
156030 156043 156064 156079 156090 156091 156093 156108  
156141 156143 156145 156148 156153 156155 156157 156159  
156160 156161 156162 156165 156180 156182 156184 156190  
156191

## (2)

156201 156202 156203 156205 156207 156208 156226 156229  
 156230 156232 156233 156236 156237 156251 156256 156257  
 156259 156267 156276 156293 156295 156299 156311 156312  
 156316 156317 156322 156324 156340 156357 156369 156370  
 156371 156374 156377 156378 156383 156387 156794 156795  
 156841

## AMENDMENT PROCEEDING UNDER SECTION 57

## (1)

Notice is hereby given that B & W Diesel A/S of No. 2 Torwegade, 1400 Copenhagen K, Denmark, a corporation organised under the laws of Denmark, have made an application under section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 148891 for "Apparatus for measuring instantaneous values of pressure in the cylinders of a reciprocating engine and/or for computing the indicated mean pressure." The amendments are by way of changing name and address. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the same for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## (2)

The amendments proposed by propylox in respect of patent application No. 151085 as advertised in Part III Section 2 of the Gazette of India dated 31st March 1984, have been allowed.

## (3)

Notice is hereby given that Council of Scientific and Industrial Research, an Indian registered body incorporated under the Registration of Societies Registration Act (Act XXI of 1860) has made an application under Section 57 of The Patents Act 1970 for amendment of complete specification of their Patent No. 152541 for "An improved process for the sweetening of Petroleum Distillates containing Mercapto-sulphur Compounds." The amendments are to amend the complete specification by way of clerical error. The application for amendment and the proposed amendment can be inspected free of charge at the Patent Office Branch, M. M. Building, Saraswati Marg, Karol Bagh, New Delhi-110005 or copies of the same can be had on payment of usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on Form-30 within 3 months from the date of this notification at Patent Office Branch, Delhi. If written statement of opposition is not filed with the notice of opposition, it should be filed within one month from date of filing of said notice of opposition.

## (4)

Notice is hereby given that Paramac Chemicals Limited a British Company, of Unit A 3, Stafford Park 11, Telford, Shropshire, England have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their Patent application No. 157649 for "A device for scouring the surface of elongate material". The amendment are by way of correction, explanation and disclaimer. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition Form 30 within three months from the

date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said.

## RENEWAL FEES PAID

137916 139184 140499 140684 141310 142345 143015 143191  
 143374 143376 144152 144517 144695 145463 145677 145951  
 146400 146890 147738 148893 149666 150316 150365 150366  
 150367 150368 150497 150542 150651 150654 150703 150736  
 150993 151020 151245 151449 151853 151917 152101 152357  
 152439 152530 152777 152804 152825 152897 152945 153086  
 153139 153271 153275 153674 153712 153894 153945 154139  
 154195 154215 154471 154480 154616 154732 155162 155465  
 155467 155516 155534 155547 155608

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not to be inspected of a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry :—

Class 1. No. 156904. Emco Electricals Pvt. Ltd., Indian Company, 106, Industrial Area, Sion, Bombay-400022, Maharashtra, India. "Brake". April 2, 1986.

Class 1. No. 157036. Rajsukh Industries, 2 Iron Monger Street, Kondithope, Madras-600079, Tamilnadu, a proprietary concern. "Fridge Bottle". May 8, 1986.

Class 1. No. 156897. U.P. National Manufacturers Pvt. Ltd. Ram Katora Road, Varanasi 221 001, U.P., India, "Whipping Blade". April 1, 1986.

Class 1. No. 156769. Mahindra Owen Ltd., Indian Company, 155, Bombay Pune Road, Pimpri, Pune 411018, Maharashtra, India. "Trailer Lock". March 11, 1986.

Class 1. No. 156528. Emco Electricals Pvt. Ltd., Indian Company, 106, Industrial Area, Sion, Bombay-400022, Maharashtra, India. "Electromagnetic Brake with manual release". January 16, 1986.

Class 1. Nos. 156872 & 156873. Master Plastic Bottle Manufacturers Pvt. Ltd., Indian Company. Diners Business Services, Raheja Chambers, 213, Nariman Point, Bombay-400021, Maharashtra, India. "Bottles". March 25, 1986.

Class 1. No. 156770. J.A. Machine Tools, G. T. Road, Batala-143505 (Pb), India. Proprietary firm. "Shaping Machine". March 11, 1986.

Class 1. Nos. 156602 to 156606. Mohinder Singh Vedi, Indian, 102, Chanerlock, Pritampura, New Delhi-110034, India. "Butt Hinge". February 5, 1986.

Class 3. No. 157259. Mrs. Isha Pal, 175/4, Shibpur Road, Howrah-2, W.B., India. Indian. "Toy". July 14, 1986.

Class 3. Nos. 157251 to 157254. Schwan Stabilo Schwanhauser GmbH & Co. Maxfeldstrasse 3, D-8500, Nürnberg-1, F.R.G. "Maker". July 11, 1986.

Class 3. No. 157255. Schwan Stabilo Schwanhauser GmbH & Co. Maxfeldstrasse 3, D-8500, Nürnberg-1, F.R.G. "Pencil". July 11, 1986.

- Class 3. Nos. 156874 & 156875. Master Plastic Bottle Manufacturers Pvt. Ltd., Indian Company, Diners Business Services, Raheja Chambers, 213, Nariman Point, Bombay-400021, Maharashtra, India. "Bottles". March 25, 1986.
- Class 3. No. 156622. Unicrafts Corporation (India), a partnership firm, 47/8, V. N. Purav Marg, Khajuri-Chunabhatti, Sion, Bombay-400022, Maharashtra, India. "The suspension hook for venetian blind". February 12, 1986.
- Class 3. No. 156623. Unicrafts Corporation (India), a partnership firm, 47/8, V. N. Purav Marg, Khajuri-Chunabhatti, Sion, Bombay-400022, Maharashtra, India. "The swinging Cord Lock for venetian blind". February 12, 1986.
- Class 3. No. 156624. Unicrafts Corporation (India), a partnership firm, 47/8, V. N. Purav Marg, Khajuri-Chunabhatti, Sion, Bombay-400022, Maharashtra, India. "The swinging Pulley for venetian blind". February 12, 1986.
- Class 3. No. 156698. Inalsa Pvt. Ltd., Surya Kiran, 19-Kasturba Gandhi Marg, New Delhi-110001, India. "Juicer Attachment to a food processor". February 25, 1986.
- Class 3. No. 156699. Inalsa Pvt. Ltd., Surya Kiran, 19-Kasturba Gandhi Marg, New Delhi-110001, India. "Whisking Bla Des for a food processor". February 25, 1986.
- Class 3. No. 156621. Tej International Pvt. Ltd., Indian Company, A-586, Ricco Industrial Area, Bhiwadi, Dist. : Alwar, Rajasthan, India. "Soles of footwear". February 12, 1986.
- Class 3. No. 156539. Kalpana Industries, 405, Byculla Industrial Estate, Sussex Road, Near Victoria Gardens, Bombay-400027, Maharashtra, India, a partnership firm. "Star container". January 20, 1986.
- Class 3. No. 156551. Paman Products Pvt. Ltd., 205-A, Hiran Industrial Estate, Mogul Lane, Mahim, Bombay-400016, Maharashtra, India, Indian Company. "Radio Cum Tape Recorder". January 22, 1986.
- Class 3. No. 156553. Paman Products Pvt. Ltd., 205-A, Hiran Industrial Estate, Mogul Lane, Mahim, Bombay-400016, Maharashtra, India, Indian Company. "Radio Cum Cassette Tape Recorder". January 22, 1986.
- Class 3. No. 156552. Paman Products Pvt. Ltd., 205-A, Hiran Industrial Estate, Mogul Lane, Mahim, Bombay-400016, Maharashtra, India, Indian Company. "Cassette Tape Recorder". January 22, 1986.
- Class 3. No. 157374. Pioneer Plastic Works Pvt. Ltd., 9, Ezra Street, Calcutta-700001, W.B., India. "Hinge with locking button". August 26, 1986.
- Class 3. No. 157375. Pioneer Plastic Works Pvt. Ltd., 9, Ezra Street, Calcutta-700001, W.B., India. "Basket". August 26, 1986.
- Class 3. No. 157039. Sarita Motor Company, Jagmohan Mansion, 20, Avantikabai Gokhale Road, Bombay-400004, Maharashtra, India. Indian Proprietary firm. "Bumper Guard". May 8, 1986.
- Class 3. No. 156682. Shree Krishnakeshav Laboratories Ltd., Amraiwadi Road, Ahmedabad-380008, Gujarat, India, Indian Company. "Liquid flow control device". February 19, 1986.
- Class 3. No. 156593. Keerti Electronics, 14-7-226/1, Chudi Bazar, Hyderabad 500012, A.P. India. "Voltage Stabiliser". February 5, 1986.
- Class 3. No. 156734. Standipack Pvt. Ltd., Indian Company, 25, Community Centre, East, Kailash, New Delhi-110065, India. "Pouch". February 27, 1986.
- Class 3. No. 156687. Samrat Leather Works, Proprietary Firm, 276/10, New Municipal Chawl, Kala Killa Dharavi Road, Bombay-400017, Maharashtra, India. "Carboard box with plastic lead". February 20, 1986.
- Class 3. No. 157180. Geep Industrial Syndicate Limited, 28, South Road, Allahabad, U.P. Indian Company. "A Dry Cell Hand Lantern". June 19, 1986.
- Class 3. No. 157261. Rotomould (India) Vijay Industrial Estate, Padra Road, Samiala, Baroda 391410, Gujarat, India. Indian Partnership Firm. "Storage Tank". July 14, 1986.
- Class 3. Nos. 157016 & 157017. Flair Writing instruments, Partnership Firm, 30A, Devan Industrial Estate, J.B. Patel Road, Goregaon (East), Bombay-400063, Maharashtra, India. "Pen". May 2, 1986.
- Class 3. No. 157324. Eagle Flask Pvt. Ltd., Eagle Estate, Talegaon-410507, Pune, Maharashtra, India. "Vacuum Jug". August 8, 1986.
- Class 3. No. 157342. Lion Pencils Pvt. Ltd. Andrew Nagar, S. V. Road, Dahisar, Bombay-400068, Maharashtra, India. "Pencil". August 19, 1986.
- Class 3. Nos. 156964, 156966 & 156967. Samsonite Corporation, 11200 East 45th Avenue, Denver, Colorado 80239, U.S.A. "Luggage case". Priority date October 31, 1985 (U.K.).
- Class 3. No. 156968. Samsonite Corporation, 11200 East 45th Avenue, Denver, Colorado 80239, U.S.A. "Handle". Priority date October 31, 1985 (U.K.)
- Class 3. No. 156982. Racold Appliances Pvt. Ltd. Vandhana, 12th Floor, 11, Tolstoy Marg, New Delhi-110001, Indian Company. "Handle for electric iron". April 23, 1986.
- Class 3. No. 157224. Perfect Engineering Group, Indian Partnership Firm, Gowal Singh Compound, Abu State, Gala No. 12, Oshiwara, Jogeshwari (West), Bombay-400102, Maharashtra, India. "Indicator". July 4, 1986.
- Class 3. No. 157037. Rajsukh Industries, No. 2, Iron Monger Street, Kondithope, Madras-600079, Tamilnadu, India. "Fridge Bottle". May 8, 1986.
- Class 4. No. 156758. Naveen Kumar Kataruka, 1, SAILA Kumar Mukherjee Road, Howrah 711101, W.B., India, Indian. "Bottle". March 7, 1986.
- Class 4. Nos. 156876 & 156877. Master Plastic Bottle Manufacturers Pvt. Ltd., Diners Business Services, Raheja Chambers, 213, Nariman Point, Bombay 400021, Maharashtra, India. "Bottle". March 25, 1986.
- Class 5. No. 157104. GTC Industries Limited. Tobacco House, Vile Parle, Bombay-400056, Maharashtra, India. "Cigarette Packet". May 30, 1986.
- Class 12. Nos. 156717 to 156725. Emjas Trust, 8th floor, Mogul's Court, Basheerbagh, Hyderabad-500012, A.P., India. "Biscuits". February 26, 1986.

Name Index of Applicants for Patents for the month of January, 1986 (Nos. 1/Cal/86 to 74/Cal/86, 1/Bom/86 to 41/Bom/86, 1/Mas/86 to 71/Mas/86 and 1/Del/86 to 99/Del/86).

*Name and Application No.*

—A—

ADI Limited.—63/Cal/86.  
AE PLC.—62/Mas/86.  
A. H. Robins Company Incorporated.—27/Mas/86.  
Accumulatorenfabrik Sonnenschein GmbH.—83/Del/86.  
Adnovum AG.—58/Mas/86.  
Agarwal, B.L.—70/Cal/86.  
Agarwal, B.R.—34/Bom/86.  
Agrawal, M. (Smt.)—5/Bom/86.  
Ahmedabad Textile Industry's Research Association—30/Bom/86.  
Alcan International Ltd.—62/Del/86.  
Alenax Corporation.—65/Del/86.  
Allied Colloids Limited.—36/Mas/86.  
Allied Corporation.—28/Mas/86.  
Alsthom-Atlantique S.A.—60/Del/86.  
Amco Batteries Limited.—10/Mas/86.  
Amsted Industries Incorporated.—2/Mas/86.  
Anderson Company of Indiana, The.—31/Del/86.  
Associated Electrical Industries Limited.—46/Del/86 and 52/Del/86.  
Avtokombinat.—24/Mas/86.

—B—

BBC Brown, Bovary & Company, Limited.—48/Mas/86.  
BICC Public Limited Company.—32/Del/86, 51/Del/86.  
Babcock & Wilcox Company, The.—62/Cal/86.  
Bandag Licensing Corporation.—34/Del/86.  
Banerji, A.K.—13/Cal/86, 14/Cal/86.  
Bankamerica Corporation.—34/Cal/86.  
Barrico Limited.—40/Mas/86.  
Bayer Aktiengesellschaft.—24/Del/86.  
Beacon Industrial Electronics Pvt. Ltd.—4/Bom/86.  
Behere, R.—32/Bom/86.  
Beloit Corporation.—15/Cal/86, 24/Cal/86, 36/Cal/86.  
Bell, O.—66/Del/86.  
Bharat Heavy Electricals Limited.—59/Del/86.  
Bharat Standard Industries.—2/Bom/86.  
Bharucha, H. N.—35/Bom/86.  
Bhide, A.G.—13/Bom/86.  
Bhole, A.G.—31/Bom/86.  
Biswas, S.K.—40/Del/86, 41/Del/86, 42/Del/86.  
Bombay Suburban Electric Supply Ltd.—15/Bom/86.  
Brush Switchgear Limited.—86/Del/86.

*Name and Application No.*

—C—

C.R. Bard, Inc.—80/Del/86.  
Champion Spark Plug Europe, S.A.—11/Del/86.  
Chee, S.W.—26/Cal/86.  
Choudhary, S.—19/Del/86.  
Ciba-Geigy AG.—16/Mas/86.  
Clouth Gummiwerke Aktiengesellschaft.—28/Cal/86.  
Colgate Palmolive Co.—30/Del/86, 39/Del/86, 50/Del/86.  
Color Processing System Sdn. Bhd.—59/Mas/86.  
Comminution Technics (Comminutee) Ltd.—55/Del/86.  
Corning Glass Works.—14/Mas/86.  
Council of Scientific and Industrial Research.—1/Del/86, 2/Del/86, 90/Del/86.

—D—

Dalmia Institute of Scientific & Industrial Research.—21/Cal/86, 30/Cal/86.  
Degussa Aktiengesellschaft.—67/Cal/86, 68/Cal/86.  
Desai, M.N.—23/Bom/86.  
Desai, N. N.—3/Bom/86.  
Dobrovolskaya, N. I.—16/Cal/86.  
Doss, K.S.G.—9/Mas/86.  
Dow Chemical Company, The.—52/Mas/86.  
Dowty Hydraulic Units Limited.—88/Del/86.

—E—

Fastway Holdings Ltd.—26/Del/86.  
Eco-Tech Limited.—27/Bom/86.  
Edridge, F.T.—35/Del/86.  
Ellis, A.E.H.—25/Del/86.  
Expo Gas Containers Private Limited.—29/Bom/86.  
Exxon Research & Engineering Co.—87/Del/86.

—F—

F.J.C.I. Finanziaria Industriale Commerciale Immobiliare S.p.A.—33/Del/86.  
FMC Corporation.—60/Mas/86.  
Firet B.V.—58/Cal/86.  
Flakt Aktiebolag.—12/Mas/86.  
Flonic.—53/Mas/86.  
Fukuda Denshi Co. Ltd.—1/Cal/86, 3/Cal/86.  
Furukawa Denchi Kabushiki Kaisha.—8/Mas/86.

—G—

G.D. Searle & Co.—63/Mas/86.  
GFO Gesellschaft Fur Oberlachentechnik m.b.H.—72/Cal/86.  
Gandhi, R.—43/Del/86.  
Gathoria, A.K.—40/Bom/86.

*Name and Application No.**G—contd.*

- Gayen, N.—19/Cal/86.  
 Godinho, L.G.Q.—31/Cal/86.  
 Golovlev, J. I.—16/Cal/86, 33/Cal/86.  
 Goodyear Tire & Rubber Company, The.—21/Del/86, 94/Del/86, 95/Del/86, 96/Del/86, 97/Del/86, 98/Del/86, 99/Del/86.  
 Gopalakrishnan, S. P.—38/Mas/86.  
 Gosudarstvenny Proektno-Konstruktorskij I Experimentalny Institut PO "Obogatitel'nomu Oborudovaniju "GIPROMASHOBOGASCHFNIIE".—10/Del/86.  
 Gray Tool Company.—59/Cal/86.  
 Greaves Foseco Limited.—26/Bom/86.  
 Gresko, A.F.—16/Cal/86, 33/Cal/86.  
 Growell Agrochem (Bombay) Private Limited.—14/Bom/86.  
 Gupta, J.—14/Del/86.  
 Gupta, R. P.—70/Del/86.  
 Gustavsen, B. M.—64/Del/86.

*H—*

- Henkel Corporation.—68/Mas/86.  
 Himont Incorporated.—65/Cal/86, 43/Mas/86.  
 Hindustan Lever Limited.—24/Bom/86, 25/Bom/86.  
 Hot-Hed, Inc.—32/Mas/86.  
 Hsieh, H.W.S.—69/Mas/86.  
 Hulls Aktiengesellschaft.—18/Mas/86.

*I—*

- Imperial Chemical Industries PLC.—22/Del/86.  
 Indian Institute of Technology.—92/Del/86.  
 Institut Francais Du Petrole.—45/Mas/86.  
 Institut Gornago Dela Sibirs'kogo Otdelenija Akademii Nauk USSR.—69/Del/86.  
 Institut National Des Sciences Appliquees De Lyon.—20/Del/86.  
 Institut Sverkhvysokikh Materialov Akademii Nauk Ukrainskoj SSR.—52/Cal/86.  
 Intent Patents A.G.—69/Cal/86.  
 Interatom GmbH.—22/Cal/86.  
 Interrox.—78/Del/86.  
 Ivanus, V.I.—33/Cal/86.

*J—*

- Jacobs Manufacturing Company, The.—50/Cal/86.  
 Jain, R. P.—1/Bom/86.  
 Joshi, G.M.—33/Bom/86.  
 Joshi, N. R.—17/Bom/86.  
 Jydsk Varmekedelfabrik A/S.—47/Mas/86.

*K—*

- Kalachari, C.—13/Mas/86.  
 Kandasubbu, P.—3/Mas/86.  
 Kawasaki Jukogyo Kabushiki Kaisha.—37/Cal/86.  
 Kebelschlepp GmbH.—36/Bom/86, 37/Bom/86.  
 Kennecott Corporation.—16/Del/86.  
 Khandelwal, G.—13/Del/86.  
 Khosla Engineers.—67/Del/86.

*Name and Application No.**K—Contd.*

- Kinariwala, S. N.—6/Del/86.  
 Klein, Schanzlin & Becker Aktiengesellschaft.—38/Cal/86.  
 Kostyrko, A.S.—16/Cal/86, 33/Cal/86.  
 Krishan, II.—7/Del/86.  
 Krivosheev, I. D.—16/Cal/86, 33/Cal/86.  
 —L—  
 Laboratorien Hausmann A.G.—73/Cal/86.  
 Lavrinenko, A.A.—33/Cal/86.  
 Lowan (Management) Pty. Limited.—68/Del/86.  
 Lubrizol Corporation, The.—36/Del/86, 38/Del/86, 71/Del/86.  
 Lucas Industries Public Limited Company.—21/Mas/86, 22/Mas/86, 23/Mas/86, 51/Mas/86, 65/Mas/86, 66/Mas/86.

*M*

- M. W. Kellogg Company, The.—72/Del/86.  
 Madras Institute of Magnetobiology.—41/Mas/86.  
 Mani, S.—46/Mas/86.  
 Manohar, R. S.—29/Mas/86.  
 Marathe, Y. P.—20/Bom/86.  
 Maschinenfabrik Rieter AG.—35/Mas/86, 70/Mas/86.  
 Mastschappij tot Exploitatie Van Stork Ketels B.V.—25/Mas/86.  
 Mechanical Plastics Corp.—37/Del/86.  
 Melton, M. M.—42/Cal/86.  
 Metacon AG.—56/Cal/86.  
 Midrex International B.V.—43/Cal/86.  
 Minnesota Mining and Manufacturing Company.—17/Mas/86.  
 Mitra, S. K.—71/Cal/86.  
 Mitsubishi Belting Ltd.—11/Mas/86.  
 Mobil Oil Corporation.—7/Mas/86.  
 Monsanto Company.—15/Mas/86.  
 Mosely, J.—33/Mas/86, 34/Mas/86.  
 Mull, V.—27/Del/86, 48/Del/86, 63/Del/86.

*N*

- NGK Insulators Ltd.—12/Cal/86.  
 NL Industries, Inc.—47/Cal/86, 48/Cal/86, 9/Del/86.  
 N. V. Sky Climber Europe S.A.—25/Cal/86.  
 Nair, K. V. R.—8/Bom/86, 9/Bom/86, 10/Bom/86, 11/Bom/86.  
 Nair, M. A. (Mrs.)—37/Mas/86.  
 Nauchno-Issledovatel'sky Institut Experimentalnoi Meditsiny Akademii Meditsinskikh Nauk SSSR.—51/Cal/86.  
 Nippon Kogen Concrete Co. Ltd.—64/Mas/86.  
 Nissan Chemical Industries Ltd.—7/Cal/86.  
 Novo Industri A/S.—56/Mas/86.

*O*

- Oberview Pty. Limited.—49/Cal/86.  
 Oil & Natural Gas Commission.—28/Del/86.

*Name and Application No.***O—Contd.**

Orissa Cement Limited.—21/Cal/86, 30/Cal/86.

Ovsischer, M. R.—33/Cal/86.

Owens-Illinois, Inc.—44/Mas/86.

**P**

Padgilwar Electrical Industries—28/Bom/86.

Paul, V.—41/Cal/86.

Paul, V. K.—61/Cal/86.

Pawar, M.D. (Dr.)—6/Bom/86.

Pfizer Inc.—49/Del/86.

Pidilite Industries Private Limited—12/Bom/86.

Plessey Overseas Limited—50/Mas/86.

Poddar, B.C.—54/Cal/86, 55/Cal/86.

Population Council Inc., The—60/Cal/86.

Portex Instrumentation &amp; Controls—23/Del/86.

Projzvodstvennoe Geologicheskoe Obiedinenie Tsentralnykh Rainonov "Tsentrageologiya"—57/Cal/86.

**R**

Racold Appliances Pvt. Ltd.—91/Del/86.

Ralliwolf Limited—7/Bom/86.

Regents of the University of California, The—35/Cal/86

Renganathan, R.—26/Mas/86.

Reutsky, V.F.—16/Cal/86, 33/Cal/86.

Revlon, Inc.—17/Cal/86.

Rheinische Braunkohlenwerke AG.—20/Cal/86.

Rhone Poulenc Agrochimic—79/Del/86.

Rishiroop Polymers Private Limited—16/Bom/86.

Rivkine, J.—61/Del/86.

Rizk, S. D.—69/Mas/86.

Rockwell International Corporation—75/Del/86.

Rosenberg, P.—49/Mas/86.

Roy, S.—74/Cal/86.

**S**

STC PLC.—56/Del/86.

Sanden Corporation—76/Del/86, 82/Del/86, 84/Del/86, 85/Del/86.

Satellite Technology Services, Inc.—5/Cal/86, 6/Cal/86.

Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The—53/Del/86.

Sekar, J.—67/Mas/86.

Shah, V. N.—19/Bom/86.

Shah, Z.—32/Bom/86.

Sharangpani, R. V.—41/Bom/86.

Sheritt Gordon Mine Ltd.—77/Del/86.

Shet, G. V.—71/Mas/86.

Shri Ram Institute for Industrial Research—3/Del/86, 4/Del/86, 5/Del/86, 8/Del/86.

Siemens Aktiengesellschaft—8/Cal/86, 40/Cal/86.

Singh, A.—29/Del/86.

Slobodyanjuk, I. K.—33/Cal/86.

*Name and Appln. No.***S—Contd.**

Sobrevin Societe de brevets Industriels-Etablissement.—61/Mas/86.

Societe Clemessy.—93/Del/86.

Southern Petrochemical Industries Corporation Ltd.—20/Mas/86.

Spetsialnoe Konstruktorskoe Bjuro Gidroimpulsnoi Tekhniki Sibirs'kogo Otdelenia Akademii Nauk SSSR.—23/Cal/86, 29/Cal/86.

Srinivasan, V.—30/Mas/86.

Stamicarbon B. V.—55/Mas/86.

Standard Oil Company, The—47/Del/86, 81/Del/86.

Sulzer Brothers Limited.—53/Cal/86.

Sureka International—64/Cal/86.

Surie, A.—17/Del/86, 18/Del/86.

Suvarna Sukla Investments Private Ltd.—22/Bom/86.

**T**

TIV Co. Ltd.—32/Cal/86.

Tarkkonen, P. K.—18/Cal/86.

Tasgeonkar, G. S.—18/Bom/86.

Tata Research Development &amp; Design Centre—38/Bom/86, 39/Bom/86.

Textile and Allied Industries Research Organisation, The—21/Bom/86.

Tickoo, S. L.—15/Del/86, 58/Del/86.

Titan Mining And Engineering Pty. Ltd.—73/Del/86, Toshniwal, J.—31/Mas/86.

Trutzschler GMBH &amp; Co. K.G.—9/Cal/86, 10/Cal/86, 11/Cal/86.

**U**

UOP Inc.—44/Del/86, 45/Del/86, 57/Del/86, 74/Del/86, 89/Del/86.

Uhde GmbH.—19/Mas/86.

Union Camp Corporation—54/Mas/86, 57/Mas/86.

Union Carbide Corporation—6/Mas/86, 39/Mas/86.

Uniroyal Tire Company, Inc.—54/Del/86.

University of Queensland—39/Cat/86.

**V**

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